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The genera of Uredinales with citations

compiled by

G.R. Bisby

Imperial Mycological Institute

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The genera of Uredinales, with citations.

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An attempt is made to give all the genera of Uredinales proposed up to 1944, with citations (which have been verified except in the few instances noted), dates, and the type species whenever possible. The word "monotypo" is used for genera founded on a single species which, though not actually designated the type of the genus, must be the type.

The nomenclature of the genera of Uredinales presents few difficulties, for the three names proposed before 1801 and still in use are Persoonian genera accepted in the Synopsis Methodica Fungorum, 1801, while the two other early names (Erysibe and Rubigo) have fallen out of use.

The few genera of fossil Uredinales noted are included in round brackets, the few doubtful names in square brackets.

Comments concerning synonymy, life-cycle, etc., have not been attempted. Suggestions, including notice of names omitted, will be gratefully received.

This table gives, by decades, the numbers of genera proposed:

		number	total
Up to Dec. 31,	1801	5	5
"	1811	7	12
"	1821	6	18
"	1831	7	25
"	1841	3	28
"	1851	14	42
"	1861	5	47
"	1871	4	51
"	1881	7	58
"	1891	7	65
"	1901	33	98
"	1911	46	144
"	1921	46	190
"	1931	24	214
"	1941	18	232
During 1942 and	1943	2	234

In addition, 3 generic names of fossil Uredinales and 3 subgeneric names are included below.

ACHROTELIUM H. Sydow apud Sydow & Petrak in Ann. mycol., Berl., xxvi, p. 425, Sept. 25, 1928. Monotype A. ichnocarpi Syd., loc. cit., on Ichnocarpus volubilis, Philippines.

AECIDICONIUM Vuillemin in C.R. Acad. Sci., Paris, cxv, p. 966, Dec. 1892. Monotype A. barteti Vuill., op. cit., p. 969, on Pinus montana, France.

AECIDIELLA Ellis & Kelsey in Bull. Torrey bot. Cl., xxiv, p. 208, Apr. 24, 1897. Monotype A. triumfettae Ell. & Kelsey, loc. cit., on Triumfetta sp., West Indies.

(AECIDITES Debey & Ettingshausen in Denkschr. Akad. Wiss. Wien, xvi, p. 212, 1859. Monotype A. stellatus Debey & Ettingsh., loc. cit.; fossil Aecidium. Citation not verified.)

AECIDIUM Persoon, /in Gmelin, Syst. Nat., ii, p. 1472, 1791/ Syn. Meth. Fung., p. 204, 1801. A. berberidis Pers., op. cit., p. 209, was chosen as lectotype by Clements and Shear.

ALLODUS Arthur, Result. sci. Congr. internat. Bot. Wien 1905, p. 345, 1906. Type designated as A. podophylli (Schw.) Arth., loc. cit., on Podophyllum peltatum, N. Amer.

ALLOPUCCINIA H.S. Jackson in Mycologia, xxiii, p. 347, figs., Sept. 1, 1931. Monotype A. diluta Jacks. & Holway, loc. cit., on Amicia lobbiana, Bolivia.

ALLOTELIUM H. Sydow in Ann. mycol., Berl., xxxvii, p. 312, Sept. 5, 1939. Monotype A. mirabile Syd., op. cit., p. 313, on Colliandra trinervia, Ecuador.

ALVEOLARIA Lagerheim in Ber. dtsch. bot. Ges. ix, p. 346, Jan. 24, 1892. The first species, A. cordiae Lagerh., loc. cit., Ecuador, is marked "n.g. et sp." and is taken as type by Arthur and others.

ALVEOMYCES Bubák in Ann. naturh. (Mus.) Hofmus. Wien, xxviii, p. 190, figs., 1914. Monotype A. vesicatorius Bubák, loc. cit., on Loontice loucopetalum, Syria.

BARCLAYELLA Dietel in Hedwigia, xxix, p. 266, figs., Oct. 1890. Monotype B. deformans Diet., loc. cit., on "Abies smithiana", India.

BITZEA Mains in Mycologia, xxxi, p. 38, Feb. 1, 1939. Monotypic; type species B. ingae (Syd.) Mains, loc cit., on Inga spp., America.

BLASTOSPORA Dietel in Ann. mycol., Berl., vi, p. 222, figs., July 31, 1908. Monotype B. smilacicis Diet., op. cit., p. 223, on Smilax sieboldi, Japan.

BOTRYORHIZA Whetzel & Olive in Amer. J. Bot., iv, p. 47, figs., Feb. 3, 1917, Monotype B. hippocrateae Whetzel & Olive, loc. cit., on Hippocratea volubilis, Porto Rico.

BUBAKIA Arthur, Result. sci. Congr. internat. Bot. Wien 1905, p. 338, 1906. Type designated as B. crotonis (Burrill) Arth., op. cit., p. 339, on Croton capitatus, U.S.A.

BULLARIA de Candolle, Flore franc., ii, p. 226, 1805. Monotype B. umbelliferarum DC., loc. cit., on Umbelliferae, France.

CAECMA Link in Mag. Ges. naturf. Freunde, iii, p. 5, 1809. An "omnibus" genus including Accidium, Roestolia, Uredo, Ustilago, and Caeomurus as subgenera.

CAEOMURUS (Link) S.F. Gray, Nat. Arr. Brit. Pl., i, p. 541, 1821. Five species; the first is C. phaseolarum (DC) S.F. Gray, the second C. pisi (DC) S.F. Gray, both loc. cit.

CALIDION H. & P. Sydow in Ann. mycol., Berl., xvi, p. 242, Feb. 20, 1919. Monotype C. lindsaeae (P. Henn.) Syd., on Lindsaea sp., Brazil.

CALLIOSPORA Arthur in Bot. Gaz., xxxix, p. 390, June 22, 1905. Two original species; C. Holwayi Arth., loc. cit., on Eysenhardtia orthocarpa, Mexico, was later designated type by the author.

CALYPTOSPORA Kühn in Hedwigia, viii, p. 81, 1869. Monotype C. goeppertiana Kühn, loc. cit., on Vaccinium vitis-idaea, Europe.

[CANCELLARIA Brongniart, Essai classif. nat. Champ., p. 32, 1825. "Le type de ce sous-genre est l'Accidium cancellatum".]

CAPITULARIA Rabenhorst in Bot. Ztg., ix, p.449, June 20, 1851. The first species is C. polygoni Rabenh., loc. cit.

CATENULOPSORA Mundkur in Ann. Bot., Lond., N.S. vii, p.216, figs., Nov. 1943. Type designated as C. flacourtiae Mundkur & Thirumalachar, op. cit., p.217, on Flacourtia sepiaria, India.

CENTRIDIUM Chevallier, Flore général environs Paris, I, p.383, fig., 1826. Two species; the first, which is figured, is C. sorbi Chev., France.

CEPHALOTELIUM H. Sydow in Ann. mycol., Berl., xix, p. 165, Oct. 31, 1921. Two species cited, loc. cit., C. macowanianum (Pazschke) Syd. and C. subtortuosae (Long) Syd.

[CERATITES Link, Handbuch, iii, p. 447, 1833. Subgenus of Caeoma.]

CERATITIUM Rabenhorst in Bot. Ztg. ix, p. 451, June 20, 1851. The first species is "C. elongatum (Rhamni) Rabenh. Caeoma elongatum Link", loc. cit.

CEROTELIUM Arthur (as "Ceratelium") in Bull. Torrey bot. Cl., xxxiii, p.30, Feb. 8, 1906. Monotype C. canavaliae Arth., loc. cit., on Canavalia ensiformis, Porto Rico.

CHACONIA Juel in Bih. svensk. VetenskAkad. Handl., xxiii, Afd.3, No.10, p.12, 1897. Monotype C. alutacea Juel, loc. cit., on Calliandra sp., Paraguay.

CHARDONIELLA Kern in Mycologia, xxxi, p.375, figs., Aug. 1, 1939. Monotype C. gynoxidis Kern, loc. cit., on Gynoxis sp., Colombia.

CHNOOPSORA Dietel in Ann. mycol., Berl., iv, p.423, fig., Oct. 31, 1906. C. sancti-johannis (Barcl.) Diet., on Hypericum, India, was later designated type by the author.

CHRYSELLA H. Sydow in Ann. mycol., Berl., xxiv, p. 292, Dec. 8, 1926. Monotype C. mikaniae Syd., loc. cit., on Mikania hirsutissima, Costa Rica.

CHRYSOCELIS Lagerheim & Dietel apud Mayor in Mém. Soc. neuchâtel. Sci. Nat., v, p.542, 1913. Citation not verified. The first species, C. lupini Lagerh. & Diet. apud Mayor, loc. cit., taken as type by Arthur.

CHRYSOCYCLUS H. Sydow in Ann. mycol., Berl., xxiii, p.322, figs., Dec. 31, 1925. C. cestri (Diet. & P.Henn.) Syd., loc. cit., on Cestrum, America, is taken as type by H.S. Jackson.

CHRYSOMYXA Ungor, Beitr. vergl. Pathol., p. 24, figs., 1840, Monotypo C.abietis (Wallr.) Ungor, loc.cit., on "Pinus abios L." Europe.

CHRYSOPSORA Lagerheim in Ber. dtsch. bot. Ges. ix, p.345, Jan. 24, 1892. Monotype C. gynoxidis Lagerh. on Gynoxis spp., Ecuador.

CIGLIDES Chovallior, Flore générale environs Paris, I, p. 384, 1826. Two species given, the first C. calyptratum Chov., has Aecidium cancellatum Pers. as a synonym, the second has A. lacoratum DC.

CIONOTHRIX Arthur in N. Amer. Flora, vii, p. 124, Mar. 6, 1907. Monotypo C. praelonga (Wint.) Arth., loc. cit., on Compositae, Brazil.

CLEPTOMYCES Arthur in Bot. Gaz. lxv, p. 464, May 15, 1918. Type designated as C. lagerheimianus (Diet.) Arth., loc. cit., on Aegiphila sp., Ecuador.

COINOSTELIUM H. Sydow in Ann. mycol., Berl., xxxvii, p. 308, Sept. 5, 1939. Monotypo, C. quitense Syd., loc. cit., on Citharexylum ilicifolium, Ecuador.

COLEOPUCCINIA Patouillard in Rev. mycol. xi, p. 35, Jan. 1, 1889. Monotypo, C. sinensis Pat., op. cit. p. 36, on Amplanchier sp., China.

COLEOSPORIUM Léveillé in Ann. Sci. nat., 3, viii, p. 343, Dec. 1847. The first species, C. rhinanthacearum (DC.) Lév., op. cit., p. 376, is taken as type by Arthur.

CORBULOPSORA Cummins in Mycologia, xxxii, p. 364, figs., June 1, 1940. Type dosignated as C. clemensiae Cummins, op. cit., p. 365, on Olearia sp., New Guinea.

CORONOTELIUM H. Sydow in Ann. mycol., Berl., xix, p. 174, Oct. 31, 1921. Type dosignated as C. mosnioriamum (Thüm.) Syd., loc. cit.

CRONARTIUM Fries, Obs. Myc. i, p. 220, 1815. Monotype C. asclepiadeum Fr., loc. cit., on Asclepiadaceae, Europe.

CROSSOPSORA H. & P. Sydow in Ann. mycol., Berl., xvi, p. 243, Feb. 20, 1919. Type dosignated as C. zizyphi (Syd. & Butl.) Syd., loc. cit.

CTENODERMA H. & P. Sydow in Ann. mycol., Berl., xvii, p. 102, June 10, 1920. Type dosignated as C. cristatum (Spog.) Syd., op. cit., p. 103.

CUMMINSIELLA Arthur in Bull. Torrey bot Cl. lx, p. 475, Oct. 2, 1933. Type dosignated as C. sanguinea (Pock) Arth., loc. cit., on Mahonia, U.S.A.

CUTOMYCES Thümen in Jor. Sci. math. phys. nat., Lisboa, vi, p. 239, 1878. Monotype "C. asphodeli Thuem. (Puccinia asphodeli Duby)."

CYSTINGOHORA Arthur in N. Amer. Flora, vii, p. 131, Mar. 6, 1907. Monotype C. hieronymi (Speg.) Arth., loc. cit., on Acacia cavenia, Argentina.

CYSTOMYCES H. Sydow in Ann. mycol., Berl., xxiv, p. 290, figs., Dec. 8, 1926. Monotype C. costaricensis Syd., loc. cit., on Leguminosae indet., Costa Rica.

CYSTOPSORA Butler in Ann. mycol., Berl., viii, p. 448, figs., Aug. 31, 1910. Monotype C. oleae Butl., loc. cit., on Olea dioica, India.

CYSTOTELIUM H. Sydow in Ann. mycol., Berl., xix, p. 165, Oct. 31, 1921. Monotype C. inornatum (Diet.) Syd.

DASTURELLA Mundkur & Kheswalla in Mycologia, xxxv, p. 202, figs., Apr. 1, 1943. Type designated as D. divina (Syd.) Mundk. & Khesw. on Dendrocalamus, India.

DASYSPORA Berkeley & Curtis in J. Phila. Acad. Sci., 2, ii, p. 281, 1853. Monotype D. foveolata Berk. & Curt., loc. cit. Citation not verified.

DENDROECIA Arthur, Result. sci. Congr. internat. Bot. Wien 1905, p. 340, 1906. Type designated as D. farlowiana (Diet.) Arth., loc. cit., on Acacia anisophylla, Mexico.

DESMELLA H. & P. Sydow in Ann. mycol., Berl., xvi, p. 241, Feb. 20, 1919. Type designated as D. anoimiae (P. Henn.) Syd., loc. cit.

DESMOTELIUM H. Sydow in Ann. mycol., Berl., xxxv, p. 252, July 25, 1937. Monotype D. cocotanoum Syd., loc. cit., on Millettia rhodantha, Sierra Leone.

DIABOLE Arthur in Bull. Torrey bot. Cl. xlix, p. 194, Aug. 20, 1922. Monotype D. cubensis (Arth.) Arth., loc. cit., on Mimosa pigra, Cuba.

DICAEOMA S.F. Gray, Nat. Arr. Brit. Pl. i, p. 541, 1821. Nine species; the first, D. persicariae S.F. Gray, loc. cit., taken as type by Arthur.

DICHEIRINIA Arthur in N. Amer. Flora, vii, p. 147, Mar. 6, 1907. Type designated as D. binata (Berk.) Arth., loc. cit., on unknown plant, Nicaragua.

DICHLAMYS H. & P. Sydow in Ann. mycol., Berl., xvii, p. 105, June 10, 1920. Monotype D. trollipi (Kalchbr. & MacOwan) Syd., loc. cit.

DIDYMOPSORA Dietel in Hedwigia, xxxviii, p. 254, Oct. 10, 1899. Three species; the first, D. solani-argentei (P. Henn.) Diet., was taken as type by Arthur.

DIDYMOSIRA Clements, Genera of Fungi, p. 99, 1909. Used in place of Puccinosira.

DIETELIA P. Hennings in Hedwigia xxxvi, p. 215, Aug. 1, 1897. Monotype D. verruciformis (P. Henn.) P. Henn., loc. cit., on Sida macrodon var. intermedia, Argentina.

DIORCHIDIUM Kalchbrenner in Grevillea xi, p. 26, Sept. 1882. Monotype D. woodii Kalchbr. & Cooke, loc. cit., on Millotia caffra, South Africa.

DISCOSPORA Arthur in N. Amer. Flora, vii, p. 149, Mar. 6, 1907. Type designated as D. effusa (Peck) Arth., loc. cit., on Rhus sp., U.S.A.

EARLIEA Arthur, Result. sci. Congr. internat. Bot. Wien 1905, p. 341, 1906. Type designated as E. speciosa (Fr.) Arth., loc. cit., on Rosa. Cfr. Aregma.

EDYTHEA H.S. Jackson in Mycologia, xxiii, p. 97, figs., Mar. 2, 1931. Type designated as E. quitensis (Lagerh.) Jacks. & Holw., op. cit., p. 99.

ENDOPHYLLOIDES Whetzel & Olive in Amer. J. Bot. iv, p. 50, figs., Feb. 3, 1917. Type designated as E. portoricensis Whetzel & Olive, loc. cit., on Mikania cordifolia, Porto Rico.

ENDOPHYLLUM Léveillé in Mem. Soc. Linn. Paris, iv, p. 208, figs., 1825. Monotype E. persoonii Lév., loc. cit., on Sempervivum tectorum, France. Citation not verified.

EPITEA Fr., Syst. Myc. iii, 510, 1832. One species mentioned, E. rubi.

ERANNIUM Bonordon; Zur Kenntniss... Coniomyceten und Cryptomyceten, p. 15, figs., 1860. Four species; the first is E. aureum Bon., op. cit., p. 17, on Sonchus, Tussilago, etc., Europe.

ERIOSPORANGIUM Bertero ex Lóveillé in Ann. Sci. Nat., 3, v, p. 269, May, 1846. Monotypo E. baccharidis Bert. ex Lév., loc. cit., on Baccharis, Chile.

/ERYSIBE Theophrastus ex Wallroth, Flora crypt. Germ. ii, p. 193, 1833, included a number of Uredo stages of Uredinales./

FROMMEA Arthur in Bull. Torrey bot. Cl. xliv, p. 503, Nov. 19, 1917. Type designated as F. obtusa (Strauss) Arth., loc. cit., on Tormentilla erecta.

GALLOWAYA Arthur, Result sci. Congr. internat. Bot. Wien 1905, p. 336, 1906. Type designated as G. pini (Galloway) Arth., loc. cit., on Pinus virginiana, U.S.A.

GAMBLEOLA Massee in Kew Bull., 1898, p. 115, Juno, 1898. Monotypo G. cornuta Massee, loc. cit., on Berberis nepalensis, India.

GERWASIA Raciborski in Bull. int. Acad. Cracovie, p. 270, Feb. 1909. Monotypo G. rubi Racib., op. cit., p. 271, on Rubus sp., Java.

GOPLANA Raciborski, Paras. Algen und Pilze Javas, II, p. 24, 1900. Monotypo G. micheliae Racib., op. cit., p. 25, on Michelia velutina, Java.

GROVEOLA H. Sydow in Ann. mycol., Berl., xix, p. 173, Oct. 31, 1921. Monotypo G. indurata (Syd. & Holw.) Syd., loc. cit.

GYMNOCONIA Lagerheim in Thomsé Mus. Aarsh., xvi, p. 140, 1894. Monotypo G. interstitialis (Schlecht.) Lagerh., loc. cit., on Rubus.

GYMNOSPORANGIUM Hedwig f. in de Candolle, Flore Franc., II, p. 216. 1805. Three species; the first, G. conicum Hedw. f. in DC., loc. cit., taken as type by Korn.

GYMNOTELIUM H. Sydow in Ann. mycol., Berl., xix, p. 170, Oct. 31, 1921. Monotypo G. nootkatense (Trol.) Syd., loc. cit.

HAMASPORA Körnicke in Hedwigia, xvi, p. 22, Feb. 1877. Two species; the second, H. longissima (Thüm.) Körn., taken as type by Sydow.

HAMASPORELLA Höhnel in Z. Gär Physiol., i, p. 226, 1912. Citation not verified. Fide Sydow, the type species is H. longissima (Thüm.) Höhnel.

HAPALOPHRAGMIUM H. & P. Sydow in Hedwigia, xl, Beiblatt p. (64), June 20, 1901. Monotype H. derridis Syd., loc. cit., on Derris uliginosa, Africa.

HAPLOPYXIS H. & P. Sydow in Ann. mycol., Berl., xvii, p. 105, June 10, 1920. Monotype H. crotalariae (Arth.) Syd., loc. cit., Guatemala.

HAPLORAVENELIA H. Sydow in Ann. mycol., Berl., xix, p. 165, Oct. 31, 1921. Type designated as H. indica (Berk.) Syd.

HAPLOTELIUM H. Sydow in Ann. mycol., Berl., xx, p. 124, Sept. 25, 1922. Type designated as H. amoenum (Syd.) Syd., loc. cit.

HEMILEIA Berkeley & Broome in Gdnrs' Chron., 1869, p. 1157, figs., Nov. 6, 1869. Monotype H. vastatrix Berk. & Br., loc. cit., on Coffea, Ceylon.

HEMILEIOPSIS Raciborski, Paras. Algen und Pilze Javas, I, p. 25, 1900. Two species; the first, H. strophanthi Racib., is marked "nov. gen. et sp."

HOLWAYELLA H.S. Jackson in Mycologia, xviii, p. 49, Jan. 1, 1925. Type designated as H. mikaniae (Arth.) Jacks., loc. cit.

HYALOPSORA Magnus in Ber. dtsch. bot. Ges. xix, p. 582, Jan. 29, 1902. Two original species; the first, H. aspidiotus (Peck) Magn., taken as type by Arthur.

HYPODERMIUM Link in Mag. Ges. Naturf. Berlin, iii, p. 5 /p. 27 of reprint/, 1809. An omnibus genus with Ustilago, Urodo, Uromyces, etc., as subgenera.

JACKYA Bubák in Öst. bot. Z., lii, p. 42, 1902. Two species, loc. cit., J. cirsii-lanceolata (Schroet.) Bubák and J. Cirsii-oriophori (Jacky) Bubák. Citation not verified.

KLASTOPSORA Dietel in Ann. mycol., Berl., ii, p.26, Feb. 15, 1904. Monotype K. komarovii Diet., loc. cit.

KLEBAHNIA Arthur, Result. sci. Congr. internat. Bot. Wien 1905, p. 345, 1906. Type designated as K. glycyrrhizae (Rabenh.) Arth., on Glycyrrhiza lepidota, N. Amer.

KUEHNEOLA Magnus in Bot. Zbl. lxxiv, p. 169, Apr. 27, 1898. Monotype given as "Phragmidium albidum (Kühn) Ludw.," loc. cit.; Kuehneola combination not made.

KUNKELIA Arthur in Bot. Gaz., lxiii, p. 504, June 19, 1917. Type species K. nitens (Schw.) Arth., loc. cit., on Rubus, U.S.A.

KWEILINGIA Teng in Sinensia xi, p. 124, 1940. Monotype K. bambusae (Teng) Teng, loc. cit.

LECYTHEA Levoillé in Ann. Sci. nat. 3, viii, p. 373, Dec. 1847. The first species listed is L. ruborum (DC.) Lév., op. cit., p. 376.

LEPTINIA Juel in Bih. svensk. Vetens Akad. Handl., xxiii, Afd. 3, No. 10, p. 15, figs., 1897. Monotype L. brasiliensis Juel, loc. cit., on an unknown host, Brazil.

LEPTOPUCCINIA Rostrup, Plantepatologi, p. 268, figs., 1902. The first species cited is L. malvacearum (Mont.) Rostr., loc. cit.

LEUCOTELIUM Tranzschel in Riv. Patol. veg., xxv, p. 183, May-June 1935 and in Sovetsk. Bot., 1935, 4, p. 83, figs., 1935. Type designated as L. cerasi (Cast.) Tranzsch., loc. cit.

LINDROTHIA H. Sydow in Ann. mycol., Berl., xx, p. 119, Sept. 25, 1922. Type designated as L. ambigua (Alb. & Schw.) Syd., loc. cit.

LINCELLA H. Sydow in Ann. mycol., Berl., xix, p. 173, Oct. 31, 1921. Type designated as L. tenuis (Burr.) Syd., loc. cit.

LIPOCYSTIS Cummins in Bull. Torrey bot. Cl., lxiv, p. 39, Jan. 1937. Type designated as L. caesalpiniae (Arth.) Cummins, loc. cit., on Mimosa ceratonia, West Indies.

LIPOSPORA Arthur in Bull. Torrey bot. Cl., xlviii, p. 36, Jan. 24, 1921. Type designated as L. tucsonensis Arth., loc. cit., on Anemone stenophylla, Arizona.

LONGIA H. Sydow in Ann. mycol., Berl., xix, p. 165, Oct. 31, 1921. Monotype L. natalensis (Syd. & Evans) Syd.

LYSOSPORA Arthur in Result. sci. Congr. internat. Bot. Wien 1905, p. 340, 1906. Type designated as L. singularis (Magn.) Arth., loc. cit., on Anemone ranunculoides, Austria. See Bull. Torrey Bot. Cl. xlviii, p. 37, 1921.

MACALPINIA Arthur in Result. sci. Congr. internat. Bot. Wien. p. 340, 1906. Type designated as "Uromyces tepperianus Sacc. auf Acacia salicina; Australia."

MAINSIA H.S. Jackson in Mycologia, xxiii, p. 106, figs., Mar. 2, 1931. "Proposed as a substitute for Spirechina Arth."

MARAVALIA Arthur in Bot. Gaz., lxxiii, p. 60, figs., Jan. 18, 1922. Monotype M. pallida Arth. & Thaxt. apud Arth., loc. cit., on Pithecolobium latifolium, Trinidad.

MASSEELLA Diotel in Ber. dtsch. bot. Ges. xiii, p. 332, figs., Aug. 28, 1895. Monotype M. capparidis (Hobson) Diet., op. cit., p. 334, on Capparis, India.

MELAMPSORA Castagne, Obs. Myc., ii, p. 18, 1843. Monotype M. euphorbiae (Schubert) Cast., loc. cit. Citation not verified.

MELAMPSORELLA Schrooter in Hedwigia, xiii, p. 85, June 1874. Monotype M. caryophyllacearum (DC.) Schroet., loc. cit.

MELAMPSORIDIUM Klebahn in Z. PflKrankh. ix, p. 21, figs., Mar. 31, 1899. Monotype M. betulinum (Pers.) Kleb., op cit. p. 22.

MELAMPSOROPSIS (Schrooter) Arthur in Result. sci. Congr. internat. Bot. Wion 1905, p.338, 1906. Type designated as M. lodi (Alb. & Schw.) Arth., loc. cit., on Lodum palustro, Europe.

MESOPSORA Diotel in Ann. mycol., Berl., xx, p. 30, Apr. 30, 1922. Monotype M. hyporicorum (DC.) Diot., loc. cit.

MICRONEGERIA (as 'Mikronegoria') Diotel apud Diotel & Nogor in Bot. Jb., xxvii, p. 16, Apr. 17, 1899. Monotype M. fagi Diot. & Nogor, loc. cit., on Fagus procora, Chile.

MICROPUCCINIA Rostrup, Plantopatologi, p. 266, figs., 1902. The first species citod, M. ribis (DC.) Rostr. on Ribes rubrum, was soloctod as type by Arthur.

MILESIA B. White in Scottish Nat., iv, p. 162, figs., 1878. Monotype M. polypodii B. White, op. cit., p. 163, on Polypodium vulgare, Scotland.

MILESINA Magnus in Ber. dtsch. Bot. Ges. xxvii, p. 325, fig., July 29, 1909. The first species, M. kriegeriana Magn., loc. cit., is taken as type by Hiratsuka.

MIMEMA H.S. Jackson in Mycologia, xxiii, p. 338, figs., Sept. 1, 1931. Monotype M. holwayi Jacks. on Cassia versicolor, Bolivia.

MIYAGIA Miyabe apud H. & P. Sydow in Ann. mycol., Berl., xi, p. 107, figs., Apr. 30, 1913. Monotype M. anaphalidis Miyabe apud Syd., loc. cit., on Anaphalis, Japan.

MONOSPORIDIUM Barclay in J. Asiat. Soc. Beng., lvi, p. 367, figs., Mar. 18, 1888. Two species, M. euphorbiae Barcl., op. cit. p. 364, and M. andrachnis Barcl., p. 371.

NECIUM Arthur in N. Amer. Flora, vii, p. 114, Apr. 15, 1912. Type designated as N. farlowii Arth., loc. cit., on Tsuga canadensis, U.S.A.

NEORAVENELIA W.H. Long in Bot. Gaz., xxxv, p. 131, figs., Feb. 24, 1903. Monotype N. holwayi (Diet.) Long., loc. cit., on Prosopis juliflora, U.S.A.

NEPHLYCTIS Arthur in J. Mycol. xiii, p. 31, Jan. 1, 1907. Type designated as N. elegans (Schroet.) Arth., op. cit., p. 32, on Tecoma stans, S. Amer.

NIELSENIA H. Sydow in Ann. mycol., Berl., xix, p. 171, Oct. 31, 1921. Type designated as N. dactylidis (Otth) Syd., loc. cit.

NIGREDO Roussel, Fl. Calvados, p. 47, 1806. Arthur gave as lectotype N. betae (Pers.) Arth. on Beta vulgaris, France.

NOTHORAVENELIA Dietel in Ann. mycol., Berl., viii, p. 310, June 15, 1910. Monotype N. japonica Diet., loc. cit., on Securinega fluggeoides, Japan.

NYSSOPSORA Arthur in Result. sci. Congr. internat. Bot. Wien. 1905, p. 342, 1906. Type designated as N. echinata (Link) Arth., loc. cit., on Moum athamanticum, France.

NYSSOPSORELLA H. Sydow in Ann. mycol., Berl., xix, p. 169, Oct. 31, 1921. Monotype N. isopyri (Moug. & Nestl.) Syd., loc. cit.

OCHROPSORA Dietal in Ber. dtsch. Bot. Ges., xiii, p. 401, Nov. 27, 1895. Monotype O. sorbi (Oudem.) Diet., op. cit., p. 402.

OLIVEA Arthur in Mycologia, ix, p. 60, Mar. 22, 1917. Type designated as O. capituliformis (P. Henn.) Arth., op cit., p. 61, on Alchornea.

ONTOTELIUM H. Sydow in Ann. mycol., Berl., xix, p. 174, Oct. 31, 1921. Two species cited, loc. cit., O. digitatum (Halst.) Syd. and O. coronatum (Miyabe & Nishida) Syd.

OPLOPHORA H. Sydow in Ann. mycol., Berl., xix, p. 170, Oct. 31, 1921. Two species cited, loc. cit., O. cedrelae (Hori) Syd. and O. koelreuteriae (Syd.) Syd.

PERIDERMIUM Link (as sub genus) in Mag. Ges. Naturf. Freunde, vii, p. 29, 1816. "Hujus loci Aecidium Pini Pers., elatinum, columnare, abietinum Albert et Schwein ... " I have not ascertained who first raised Peridermium to generic rank.

PERISTEMMA H. Sydow in Ann. mycol., Berl., xix, p. 175, Oct. 31, 1921. Monotype P. sonchi (Rob.) Syd., loc. cit.

PERSOONIELLA H. Sydow in Ann. mycol., Berl., xx, p. 118, Sept. 25, 1922. Type designated as P. punctata (Link) Syd., loc. cit.

PHAKOPSORA Dietel in Bot. dtsch. Bot. Ges. xiii, p. 333, figs., Aug. 28, 1895. Monotype Melampsora punctiformis Barcl. & Diet. (Phakopsora combination not actually made).

PHOLONITIS Chevallier, Flore gén. environs Paris, i, p. 345, fig., 1826. Monotype P. subera Chev., loc. cit., "sur bouchons de liège." Pholonitis has also been used for a fossil rust.

PHRAGMIDIELLA P. Henn. in Bot. Jb., xxxviii, p. 104, Oct. 3, 1905. Monotype P. markhamiae P. Henn., loc. cit., Africa.

PHRAGMIDIOPSIS Wintor in Rabenh. Krypt. Flora, i, p. 227, 1882. A subgenus for Phragmidium carbonarium (Schlecht.) Wint., loc. cit.

PHRAGMIDIUM Link in Mag. Ges. Naturf. Freunde vii, p. 30, 1816. Monotype "Puccinia mucronata Pers." = Phragmidium mucronatum (Pers.) Schlecht.

PHRAGMOPSORA Magnus in Hedwigia, xiv, p. 123, Aug. 1875. Monotype P. orthobii (Cmadll.) Magn., loc. cit.

PHRAGMOPYXIS Dietel in Naturl. Pfl.Fam., i, 1[xx], p. 70, figs., 1897. Monotype P. deglubens (Berk. & Curt.) Diet., loc. cit.

PHRAGMOTELIUM H. Sydow in Ann. mycol., Berl. xix, p. 167, Oct. 31, 1921. Type designated as P. barnardi (Plowr. & Wint.) Syd., loc. cit.

PHYSONEMA Lévcillé in Ann. Sci. nat., 3, viii, p. 374, Dec., 1847. The first species listed is P. ricini (Biv.-Born.) Lev., op. cit., p. 376.

PHYSOPELLA Arthur in Result. sci. Congr. internat. Bot. Wien 1905, p. 338, 1906. Type designated as P. vitis (Thüm.) Arth., loc. cit., on Vitis vinifera, U.S.A.

PILEOLARIA Castagne, Obs. Myc., i, p. 22, figs., 1842. Monotype P. terebinthi Cast., loc. cit., on Pistacia terebinthus, France. Citation not verified.

PLEOMERIS H. Sydow in Ann. mycol., Berl., xix, p. 171, Oct. 31, 1921. Type designated as P. dispersa (Erikss.) Syd., loc. cit.

PLEORAVENELIA W.H. Long in Bot. Gaz., xxxv, p. 127, figs., Feb. 24, 1903. Ten species; the first is P. laevis (Diet. & Holw.) Long., loc. cit.

PODISOMA Link in Mag. Ges. Naturf. Freunde, iii, p. 9, 1809. The first name mentioned is Gymnosporangium fuscum DC.

PODOCYSTIS Fries, Summa veg. Scand. ii, p. 512, 1849. The first species cited is P. aecidioides (DC.) Fr., loc. cit.

PODOSPORIUM Lévcillé in Ann. Sci. nat., 3, viii, p. 374, Dec. 1847. The first species listed is P. caprearum (DC.) Lév., op. cit., p. 375.

POLIOMA Arthur in J. Mycol., xiii, p. 29, Jan. 1, 1907. Type designated as P. nivea (Holw.) Arth., loc. cit., on Salvia purpurea, Mexico.

POLIOMELLA H. Sydow in Ann. mycol., Berl., xx, p. 122, Sept. 25, 1922. Type designated as P. ancizari (Mayor) Syd., loc. cit.

POLIOTELIUM H. Sydow in Ann. mycol., Berl., xx, p. 124, Sept. 25, 1922. Type designated as P. irosinos (Lagerh.) Syd., loc. cit.

POLYTHELIS Arthur in Result. sci. Congr. internat. Bot. Wien 1905, p. 341, 1906. Type designated as "Puccinia anemones Pers., auf Anemone nemorosa; Europa," = Polythelis fusca (Pers.) Arth.

POMATOMYCES Oerstod in Vid. Medd. fra Naturh. For. Kjobenhavn, 1863, p. 249. Original not seen; Sydow cites P. strobilina Oerst.

PROSPODIUM Arthur in J. Mycol., xiii, p. 31, Jan. 1, 1907. Type designated as P. appendiculatum (Wint.) Arth., loc. cit., on Bignoniaceae.

PSEUDOPUCCINIA Höhnel apud Weese in Mitt. bot. Lab. tech. Hochsch. Wien, ii, p. 41, 1925. Monotype P. thermopsidis (Harkn.) Höhnel apud Weese, loc. cit.

PUCCINELLA Fuckel, Symb. myc., p. 60, 1869. The first species is "P. junci Fuckel" syn. "Uromyces junci Tul."

PUCCINIA Persoon, /Disp. meth. Fung., "p. 38, 1797," (the copy at Kew is marked "MDCCC", and Puccinia is described on p. 39)/ Syn. meth. Fung., p. 225, 1801. The first species is P. anemones Pers., op. cit., p. 226. No. 8, P. graminis Pers., p. 228, is taken as type by Cunningham and by Clements and Shear.

PUCCINIASTRUM Otth in Mitt. naturf. Ges. Bern, lxxi, p. 71, 1861. Monotype P. epilobii Otth., op. cit., p. 72. Citation not verified.

PUCCINIDIA H. Mayr, Waldingen Nordamerika, p. 337, 1890. Monotype P. abietis Mayr, loc. cit., on Abies concolor, N. Amer.

PUCCINIOLA Marchand in "Bijdr. Nat. Wet. 4:47, 1829." Original not seen; fide Arthur, N. Amer. Flora, the type species is "Uredo behenis DC. (on Silene inflata)."

PUCCINIOSIRA Lagerheim in Ber. dtsch. Bot. Ges., ix, p. 344, Jan. 24, 1892. The first species, P. trianfettae Lagerh., loc. cit., marked "n.g. et sp..", Ecuador, is taken as type by Arthur.

PUCCINIOSTELE Tranzschel & Komarov in Arb. Nat. Ges. St. Petersb., xxx, p. 138, 1899. Monotype P. clarkiana (Barcl.) Tranz. & Kom., loc. cit. Citation not verified.

(PUCCINITES Ettingshausen, 1855. Original not seen. Fossil Urodinales. Ref. in Saccardo, Sylloge Fungorum, x.)

RAVENELIA Berkeley in Gdnrs' Chron., 1853, p. 132, figs., Feb. 26, 1853. The first species, R. glandulosa Bork. & Curt. apud Bork., loc. cit., on Tephrosia, N. Amer., is taken as type by Arthur.

REYESIELLA Saccardo in Atti Accad. sci. ven.-trent.-istr., 1917, p. 58. Monotype R. anthomycoides Sacc., loc. cit. Citation not verified.

ROESTELIA Rebentisch, Prodr. Fl. Neomarch., p. 350, figs., 1804. Monotype R. cancellata (Pers.) Rebent., loc. cit.

ROSTRUPIA Lagerheim in J. Bot., Paris, iii, p. 188, figs., June 1, 1889. The first species, R. elymi (Westend.) Lagerh., loc. cit., was the one studied, and should be taken as type.

/RUBIGO Auct., an early general name for plant rusts./

SARTWELLIA Berkeley, Intro. Crypt. Bot., p. 317 fig., 1857, with the name S. fovcolata Berk. & Curt., is a later synonym of Dasyspora.

SCHIZOSPORA Dietel in Ber. dtsch. Bot. Ges., xiii, p. 334, figs., Aug. 28, 1895. Monotype S. mitragynes Diet., loc. cit., on Mitragyne macrophylla, Sierra Leone.

SCHROETERIELLA H. Sydow in Ann. mycol., Berl., xx, p. 119, Sept. 25, 1922. Type designated as S. stachydis (DC.) Syd., loc. cit.

SCHROETERIASTER Magnus in Ber. dtsch. Bot. Ges., xiv, p. 130, figs., Apr. 23, 1896. Monotype S. alpinus (Schroet.) Magn., op. cit., p. 131, on Rumex alpinus, Europe.

SCLEROTELIUM H. Sydow in Ann. mycol., Berl., xix, p. 172, Oct. 31, 1921. Type designated as S. compactum (de Bary) Syd., loc. cit.

SCOPELLA Mains in Ann. mycol., Berl., xxxvii, p. 58, Apr. 30, 1939. Type designated as S. echinulata (Niessl) Mains, loc. cit., on Bassia latifolia, India.

SKIERKA Raciborski, Paras. Algen und Pilze Javas, II, p. 30, 1900. Monotype S. canarii Racib., loc. cit., on Canarium commune, Java.

SOLENODONTA Castagne, Cat. Pl. Marseille, p. 202, 1845. Monotype S. graminis Cast., op. cit., p. 203. In the Supplement, p. 87, 1851, Puccinia coronata Corda is given as a synonym.

SORATEA H. Sydow in Ann. mycol., Berl., xxviii, p. 432, Dec. 30, 1930. Monotype S. amiciae Syd., loc. cit., on Amicia lehmannii, Bolivia.

SPHAEROPHRAGMIUM Magnus in Ber. dtsch. Bot. Ges. ix, p. 121, figs., May 21, 1891. Monotype S. acaciae (Cooke) Magn., op. cit., p. 122, on Acacia, India.

SPHENOSPORA Diotel in Ber. dtsch. Bot. Ges., x, p. 63, fig., Mar. 23, 1892 and Naturl. Pfl. Fam. i, 1^xx, p. 70, fig., 1897. Monotypo S. pallida (Wint.) Diet., loc. cit.

SPIRECHINA Arthur in J. Mycol., xiii, p. 30, Jan. 1, 1907. Monotypo S. loosenoriana (P. Henn.) Arth., loc. cit., on Rubus.

SPUMULA Mains in Mycologia, xxvii, p. 638, figs., Dec. 1, 1935. Monotype S. quadrifida, loc. cit., Calliandra bijuga, Mexico.

STEREOSTRATUM Magnus in Ber. dtsch. Bot. Ges. xvii, p. 131, figs., June 26, 1899. Monotype S. corticicides (Berk.) Magn., loc. cit., Japan.

STICHOPSORA Diotel in Bot. Jb., xxvii, p. 565, fig., Dec. 15, 1899. Monotype S. asterum Diet., op. cit., p. 566, Japan.

SYMPERIDIUM Klotzsch in Moyon, Beitr. Bot. gesammelt Reiseum die Erde, p. 245, 1843. Original not seen. Typo apparently S. costri Kl., loc. cit.

SYNOMYCES Arthur in N. Amer. Flora, vii, p. 661, Oct. 29, 1924. Typo dosignatod as S. reichei (Diet.) Arth., loc. cit., on Stevia sp., Mexico.

TEGILLUM Mains in Bull. Torrey Bot. Cl., lxvii, p. 707, figs., Nov. 1, 1940. Typo dosignatod as T. fimbriatum Mains, loc. cit., on Vitex, Brit. Honduras.

TELEUTOSPORA Arthur & Bisby [non Renault, 1894] apud Arthur in Bull. Torrey bot. Cl., xlviii, p. 38, Jan. 24, 1921. Typo designated as T. rudbeckiae (Arth. & Holw.) Arth. & Bisby apud Arth., loc. cit., on Rudbeckia laciniata.

(TELEUTOSPORA Renault, ref. in Saccardo, Syll. Fungi xi, p. 659. Original not seen.)

TELOCONIA H. Sydow in Ann. mycol., Berl., xix, p. 168, Oct. 31, 1921. Monotype T. rosae (Barcl.) Syd., loc. cit.

TELOSPORA Arthur in Result. sci. Congr. internat. Bot. Wien 1905, p. 346, 1906. Type designated as T. hyalina (Peck) Arth., loc. cit., on Sophora sericea, Colorado, U.S.A.

THEKOPSORA Magnus in Hedwigia, xiv, p. 123, Aug. 1875. Monotype Melampsora areolata Fr. /Thekopsora comb. not given/, loc. cit., on Prunus, Europe.

TRACHYSPORA Fuckel in Bot. Ztg., xix, p. 250, Aug. 30, 1861. Monotype T. alchemillae Fuckel, loc. cit.

TRACHYSPORELLA H. Sydow in Ann. mycol., Berl., xix, p. 168, Oct. 31, 1921. Two species cited, loc. cit., T. melospora (Therry) Syd. and T. wurthii (Fisch.) Syd.

TRAILIA H. Sydow in Ann. mycol., Berl., xx, p. 121, Sept. 25, 1922. Type designated as T. buxi (DC.) Syd., loc. cit.

TRANZSCHELIA Arthur, Result. sci. Congr. internat. Bot. Wien 1905, p. 340, 1906. Type designated as T. cohaesa (Long) Arth., loc. cit., on Anemone, Texas.

TRIACTELLA H. Sydow in Ann. mycol., Berl., xix, p. 169, Oct. 31, 1921. Monotype T. pulchra (Racib.) Syd., loc. cit.

TRICELLA W.H. Long in Mycologia, iv, p. 282, Aug. 28, 1912. Monotype T. acuminata Long, loc. cit, on Coursetia glandulosa, Arizona.

TRICHOBASIS Léveillé, "Orb., Dict. Hist. Nat., xii, p. 785, 1848." This edition has not been seen. An undated edition at Kew has Trichobasis in vol. xiv, p. 216. The first species listed is Uredo rubigo-vera DC.

TRICHOPSORA Lagerheim in Ber. dtsch. Bot. Ges., ix, p. 347 Jan. 24, 1892. Monotype T. tournefortiae Lagerh., loc. cit., on Tournefortia, Ecuador.

TRIPHRAGMIOPSIS Naumov /"Naoumoff"/ in Bull. Soc. mycol. Fr., xxx, p. 78, figs., Mar. 10, 1914. Monotype T. Jeffersoniae Naumov, loc. cit., on Jeffersonia dubia, Russia.

TRIPHRAGMIUM Link, Linnó, Species Plantarum vi, 2, p. 84, 1825. Monotype T. ulmariae (DC.) Link, loc. cit.

TROCHODIUM H. & P. Sydow in Ann. mycol., Berl., xvii, p. 106, June 10, 1920. Monotype T. ipomoeae (Thüm.) Syd., loc. cit., S. Africa.

TROLLIOMYCES Ulbrich in Notizbl. bot. Gart. Berl., xiv, p. 141, July 10, 1938. Monotype T. rosae (Barcl.) Ulbr., op. cit., p. 142, India, cf. Teloconia.

ULEIELLA Schroeter in Hedwigia, Beiblatt, p. (65), Apr. 15, 1894. Monotype U. paradoxa Schroet., loc. cit., on Araucaria imbricata, Brazil.

URAECIUM Arthur in Bull. Torrey bot. Cl. lx, p. 476, Oct. 2, 1933. Type designated as U. holwayi (Arth.) Arth., loc. cit.

UREDINOPSIS Magnus, Atti Congr. Bot. internat. Genova 1892, p. 167, figs., 1893. Monotype U. filicina (Niessl) Magn., loc. cit., on Phegopteris vulgaris, Europe.

UREDO Persoon /in Nouos Mag. Bot., Römer, I, p. 93, 1794/, Syn. Meth. Fung., p. 214, 1801. Thirty species described.

UREDOPELTIS P. Hennings in Ann. Mus. Congo belge, ii, p. 223, figs., July 1908. Monotype U. congensis P. Henn., loc. cit., on Markhamia, Congo.

UROMYCES Link in Mag. Ges. Naturf. Freunde vii, p. 28, 1816. The first species, U. appendiculatus (Pers.) Link, op. cit., is the only original species which now remains in the genus.

UROMYCLADIUM McAlpine in Ann. mycol., Berl., iii, p. 321, figs., Sept. 20, 1905. The first species, U. simplex McAlp., op. cit., p. 305, on Acacia pycnantha, Australia, taken as type by Arthur and by Cunningham.

UROMYCODES Clements, Genera of Fungi, p. 98, 1909. Used in place of Schrootoriastor.

UROMYCOPSIS (Schroeter) Arthur, Result. sci. Congr. internat. Bot. Wien 1905, p. 345, 1906. Type designated as U. excavata (DC.) Arth., loc. cit., on Euphorbia dulcis, Europe.

UROPYXIS Schroeter in Hedwigia, xiv, p. 165, Nov., 1875. Monotype U. amorphae (Curt.) Schroet., loc. cit., N. America.